YAMAHA

RX-V663BL

7.2-Channel Digital Home Theater Receiver

NEW PRODUCT BULLETIN

High-Performance Home Theater Receiver features full support for HD audio formats, HDMI video up-conversion and de-interlacing, iPod and Bluetooth audio compatibility, improved YPAO, Adaptive DRC (Dynamic Range Control), multi-zone custom installation facility, and four SCENE buttons.

1 High Sound Quality

- HD Audio format support: Dolby Digital Plus, Dolby Digital TrueHD, DTS-HD High Resolution Audio and DTS-HD Master Audio
- 7-channel 665W powerful surround sound (95W x 7)
- Digital ToP-ART and High Current Amplification
- Pure Direct for higher fidelity sound reproduction
- Burr-Brown 192kHz/24-bit DACs used in all channels
- Assignable amplifiers for bi-amp connection

2 Advanced Features

- 4 SCENE buttons offering greater operating ease (with 18 preset SCENE templates)
- XM ready with XM HD Surround powered by Neural Surround
- SIRIUS Satellite Radio ready
- Improved YPAO for automatic speaker setup
- iPod compatibility via Yamaha Universal Dock
- Bluetooth (A2DP) compatibility with Yamaha Bluetooth® Wireless Audio Receiver (YBA-10)
- Superior multi-zone control compatibility

3 High Picture Quality

- 1080p-compatible HDMI (2 in/1 out)
- Supports Deep Color (up to 36 bit), x.v.Color, a double speed Refresh Rates of 120Hz and 1080p/24Hz transmission, and Auto Lip-Sync compenzation
- Analog video to HDMI digital video upconversion and deinterlacing with TBC

4 Surround Realism

- Fine-tuned CINEMA DSP and Adaptive DSP level
- Improved Compressed Music Enhancer
- Adaptive DRC (Dynamic Range Control)

17 CINEMA DSP Programs	
Compatible Decoder Straight	
	Dolby Digital
	Dolby Digital EX
	Dolby Digital Plus
	Dolby Digital TrueHD
	DTS Digital Surround
	DTS 96/24
	DTS-ES Matrix 6.1
	DTS-ES Discrete 6.1
	DTS-HD High Resolution Audio
	DTS-HD Master Audio
	Dolby Pro Logic
	Dolby Pro Logic II Music
	Dolby Pro Logic II Movie
	Dolby Pro Logic II Game
	Dolby Pro Logic IIx Music
	Dolby Pro Logic IIx Movie
	Dolby Pro Logic IIx Game
	DTS Neo:6 Music
	DTS Neo:6 Cinema
	Neural Surround
CINEMA DSP Programs	**17**
CLASSICAL	Hall in Munich
	Hall in Vienna
	Chamber
LIVE/CLUB	Cellar Club
	The Roxy Theatre
	The Bottom Line
STEREO	7ch Stereo
ENTERTAINMENT	Sports
	Action Game
	Roleplaying Game
	Music Video
MOVIE	Standard
	Spectacle
	Sci-Fi
	Adventure
	Drama
	Mono Movie

RX-V663BL 7.2-Channel Digital Home Theater Receiver

High Sound Quality

HD Audio Format Support

This receiver lets you enjoy the best possible and newest surround sound from both Blu-ray Disc players and HD-DVD players. It supports the two lossy formats: Dolby Digital Plus and DTS-HD High Resolution Audio, as well as the lossless formats: Dolby TrueHD and DTS-HD Master Audio.

Digital ToP-ART with Audio-Grade Parts and Devices Used Throughout

Yamaha's Digital ToP-ART (Total Purity of Audio Reproduction Technology) concept combines the latest and best technologies, parts and circuit designs to maximize sound quality. These include custom-made block capacitors (1), high grade Burr-Brown 192kHz/24-bit DACs and ADC (2) and other high quality audio-grade parts (3). High Current Amplification uses superior components to achieve high current power and low impedance from the power supply to the speaker terminals. The RX-V663BL also has all channel discrete amplifier configuration.

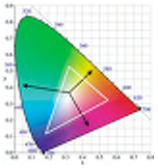
Pure Direct for Highest Sound Quality

Pure Direct is a special mode that causes the signal to bypass all but the most basic audio circuitry, and even turns off the display to prevent any chance of noise interference. It provides the purest possible high-fidelity sound for your music sources.

High Picture Quality

1080p-Compatible HDMI (2 In/1 Out)

The HDMI interface upgrades the transmission of standard, enhanced and high-definition signals via a single HDMI cable, providing extremely high video quality. Two HDMI inputs allow users to connect two high-definition sources such as Blu-ray Discs or HD-DVD players and switch between them. The RX-V663BL also provides the benefits of Deep Color (30/36bit), the x.v.Color standard, automatic audio and video synchronization (Lip-Sync) capability and 1080p/24Hz support.



x.v.Color space

30- and 36-bit color depth (Deep Color, left) and current 24-bit depth (right): 30-bit color depth consists 4 times more shades of gray or more.

HDMI Video Up-conversion and De-interlacing

The RX-V663BL provides analog video to HDMI digital up-conversion (composite video <-> S-Video <-> component video -> HDMI) and also analog video signals de-interlaced from 480i to 480p are output at HDMI terminal.

Advanced Features

SCENE — Greater Operating Ease

Four SCENE buttons make operating the receiver easier than ever. Pressing a SCENE button automatically turns the power on and launches a number of operations that initiate play of the source controlled by that button. Many SCENE settings are available, such as Dock Listening, DVD Viewing, Radio Listening and Game Playing (with 18 preset SCENE templates). Browsing and selecting the settings is quickly accomplished by rotating the Input knob and watching the on-screen display. When a Yamaha DVD or CD player with SCENE compatibility is connected to the Remote Out jack, it can be operated via the receiver's SCENE functions.

Improved YPAO Sound Optimization

The RX-V663BL has an improved YPAO system that automatically selects the crucial frequency bands for the listening room, and adjusts the level of the selected bands to create a cohesive sound field in the room. In addition, the YPAO Setup Menu appears when the YPAO mic is plugged in, so you can just run it using the system menu showing in the OSD without refering to the owner's manual.

Independent Operation of Zone 2

You can enjoy sound in a separate room (Zone 2) because the RX-V663BL provides Zone 2 audio output. Furthermore, Zone 2 power amplifier assignability and speaker terminals mean that Zone 2 can be fully independent with its own 2-channel power, while you still enjoy 5.1-channel sound in the main room.

Surround Realism

Fine-Tuned CINEMA DSP and Adaptive DSP Level

Yamaha's much-praised CINEMA DSP programs have been fine-tuned for even better sound with the latest generation CINEMA DSP technology*. As a result, the source and the sound field are in closer harmony, providing a delightful new CINEMA DSP experience.

When volume is low, CINEMA DSP effects may be difficult to hear. Adaptive DSP Level overcomes this problem by evaluating the difference between the volume level and a reference level, and adjusting the DSP level to ensure optimum effectiveness—that is, the best possible sound.

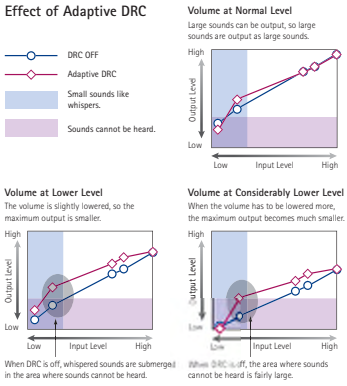
(*Note: CINEMA DSP programs are not compatible with Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD High Resolution Audio.)

Improved Compressed Music Enhancer

Yamaha's Compressed Music Enhancer is a popular feature that restores the sound of the original music from digitally compressed formats such as MP3. This receiver offers an upgraded version that processes multi-channel signals with a DSP algorithm, so all channels (rather than just two) are enhanced. This provides more accurate reproduction and a more expansive sound.

Adaptive DRC

Adaptive DRC (Dynamic Range Control) is a new volume control technology that is effective for low-volume listening, such as at night or with headphones. It applies DRC processing to eliminate the volume differences between loud commercials and ordinary programming and to take into account our ears' loss of sensitivity as volume decreases.


Effect of Adaptive DRC
DRC OFF
Adaptive DRC
Small sounds like whispers.
Sounds cannot be heard.
Volume at Normal Level
Large sounds can be output, so large sounds are output as large sounds.
High
Output Level
Low
Low
Input Level
High
Volume at Lower Level
The volume is slightly lowered, so the maximum output is smaller.
Volume at Considerably Lower Level
When the volume has to be lowered more, the maximum output becomes much smaller.
When DRC is off, whispered sounds are submerged in the area where sounds cannot be heard.
When DRC is off, the area where sounds cannot be heard is fairly large.

Other Notable Features

- XM Satellite Radio ready with XM HD Surround powered by Neural Surround
- SIRIUS Satellite Radio ready
- 40-station preset tuning / Auto preset tuning
- HD Audio LPCM 7.1-channel reception (up to 192kHz)
- High dynamic power and Linear Damping
- Low Jitter PLL Circuitry
- Assignable amplifiers for bi-amp connection
- Initial Volume and Maximum Volume Setting
- iPod song titles displayed in English and Western European languages ISO 8859-1 (Latin 1) on the front panel and on-screen display
- SILENT CINEMA and Virtual CINEMA DSP
- Dialogue Lift for dialogue to screen center
- Preout terminals for front, center, surround and surround back, and dual mono subwoofer out
- 9 selectable subwoofer crossover frequencies
- Subwoofer phase select
- 8-channel or 6-channel external input
- Speaker A, B, A+B selection
- Preset remote unit

Yamaha Bluetooth® Wireless Audio Receiver

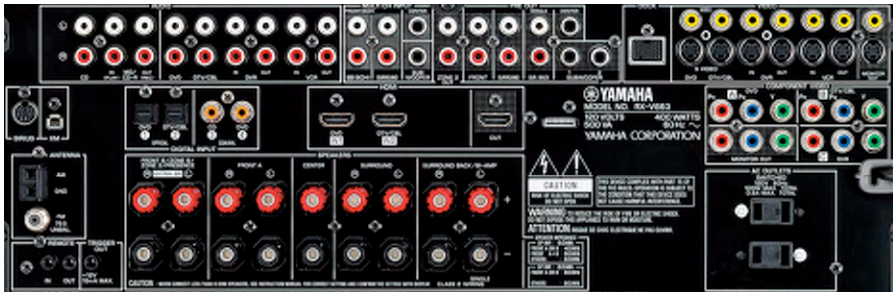
The YBA-10 Bluetooth Wireless Audio Receiver docks to the receiver and supports A2DP audio streaming, so users can enjoy music wirelessly from Bluetooth-enabled mobile phones, Windows PCs and Macs.

Yamaha Universal Dock for iPod

The optional Yamaha Universal Dock lets you connect your iPod to the receiver.

Made for iPod

iPod not included



Inputs	HDMI	2
	XM / SIRIUS Satellite Radio Terminal	1 / 1
	Dock Terminal for iPod / Bluetooth	1
	Optical Digital (Fixed and Assignable)*, **	3
	Coaxial Digital (Fixed and Assignable)	2
	S-Video**	5
	Analog A/V / Audio**	5 / 2
	Component Video (Fixed & Assignable)	3
	Multi-Channel External Input	8 ch

Outputs	HDMI	1
	Analog A/V / Audio	2 / 1
	S-Video	2
	Component Video Monitor	1
	S-Video / Composite Monitor	1 / 1
	Speaker (without subwoofer)	7 ch / 9 ter.
	Subwoofer	2
Others	Zone 2 Audio Out	1
	Remote In/Out	1 / 1
	Trigger Out	1

* Video Aux not assignable. ** Including front panel Video Aux terminals.

Main Specifications

Minimum RMS Output Power (8 ohms, 20 Hz–20 kHz, 0.06% THD)	
Front L/R Channels	95 W + 95 W
Center Channel	95 W
Surround L/R Channels	95 W + 95 W
Surround Back Channels	95 W + 95 W
Dynamic Power (1 kHz)	
8/6/4/2 ohms	130/165/195/240 W
Damping Factor (8 ohms, 20 Hz–20 kHz)	120 (speaker A)
Frequency Response	10 Hz–100 kHz +0, -3 dB
Total Harmonic Distortion (CD, Front Sp Out) (2ch Stereo, 50 W/8 ohms)	0.06%
Signal-to-Noise Ratio (CD)	100 dB (250 mV)
Monitor Out Frequency Response Component Video Signal	5 Hz–100 MHz -3 dB
Dimensions (W x H x D)	17 1/8" x 6 3/4" x 15 1/2" 435 x 171 x 393 mm
Weight	32 lbs.; 14.5 kg

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For more information or to place an order please call Diamond Case Designs, Inc. at (800) 616-5354

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